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	Adv Devops Assignment 1 (04)
Q1.	Use S3 bucket for Video Streaming Rosting.
Ans	We are supposed to follow the below mentioned
	steps for using an 33 bucket for video streaming
	hosting
	1) Create an S3 bucket:
	-> Log or into your AWS management console
	and navigate to the 53 service
	-> (reate a new bucket ensuring that the bucket
	name is unique globally. Choose and appropriate
	region where you want to store your videos.
	2) Uploud your files:
A	-> Upload your video files to the S3 bucket. You
	can do this via the AWS Console or using AWS CLI.
	Ensure the files are in a format suitable for
	streaming (eg. MPT).
	(3) Set Permistions.
	-> Configure the bucket's permissions to allow public
	access for restricted access depending on your needs).
0	This can be done using 83 bucket-policies (Access
	Control Lists) to ensure that users can view the video
	files.
	-> You may want to restrict access based on time -
	limited URLS if you're dealing with sensitive
	(9) Enable state Website hosting
	-> In the S3 bucket settings, enable "Static Website
	hosting". This allows you to serve untent directly
	via HITP. The S3 bucket will then act as a wes
	server for your video untent.
	- Provide the index document and cornor document field
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Even if you are just streaming video. (5) Video player integration. -> Use a video player (like HTML5 video player or third-porty libraries such as video.js) that ca read the video file from the S3 URL and street it to the used browser or application DOptimize for Streaming: - For larger video files or continuous et rearing, consider converting your vides into smaller chevandes using HUS (HTTP& Live streaming) or protocolo. These chunets can also be stored in the 83 bucket and streamed via the video player Discuss BMW and Hot star case studies using AWS. BMW case Andy using AWS: BMW leverages AWS for enhance its autonomous driving, connected car services, and digital transformation initiatives. By utilizing services like Amozon 33 for data Storage JEC2 for compute, and SageMaker for machine learning, BMhi processes massive amounts of vehicle data in real time improving performance maistain millions of connected cans, offering over-the air updates and predictive maintainence. With feature, BMW regulations low later of services, section Sundaram) FOR EDUCATIONAL USE

regulations, enhancing user experience through
platforms like Connected prive Hotstar Case endy Using AWS: Hot star uses AWS to manage massive traffic spikes during like streaming events, such as cricket tournaments. With AWS Auto Scaling and Flastic Load Balancing Hotstar ensures unitterrupted streaming for millions of current viewess. AWS Elemental Media Services sowers Hotstor's high quality video streaming, Cloud front ensures (ow - latery content delivery Hotstor also utilizes AWS analystics services to personalize recommendations and optimize performance, while services like Dynamu DB and S3 handle large-scale data needs. AWS'S security.

features protect user data, and its pay-ons-yourge model helps Hotstar manage conta effectively. Q3 Why kubernetes and advantages and disadvantages of tubernetes. Explain how adidas uses Kubernetes 9 Klubernetes is an open-source container orchestration platform that automates the deployment, scaling management of containeristed applications. It handles tasks like load balancing, self healing, scaling and resource optimization, making it a gotto solution for modern application. P.7-0 (Jundaram) FOR EDUCATIONAL USE

	Its advantages are as follows: D. Scalability: Early scales application horizontally and vertically.
	D.S. calability: Early Scales application Robbins
	vestically
	High availability. Reschedules filed contained to
	maintain software. 3 Resource efficiency: Efficiently utilizes hardware resources other advantages include postability and automation.
	Resource efficiency. Efficiently actual postability
	resources. Other advantages not property
8.	and automation.
	The 1's los tocco as follows:
-	Its disadvantages are as follows: (1) Complexity: The steep learning curve due to its
	(1) complexity: the steep to the
	2) Overhead requires more resources to run, which
	can lead to ligher costs for smaller applications.
	Lan pack of the land of the la
	How adidas uses Kubennetes Adidas adopted ?
	kubesnetes to manage its microspivices - based
	Adidas benefits from Kubernetes ability to scale
	Acidas benefits from kubernetes ability to scale
_	work loads dynamically during peak traffic periods-
	Such as product launches or high demand times
	like holiday & seasons. This flexibility allows Adidas
	to deliver a consistent user experience while
	monitoring operational efficiency across its un-
	e-connèrce platorno.
- 0,4	What are Nagios and explain how Nagios are used in
_	E-services 90
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An	Nagios is an open-source monitoring tool that
	hers wall the health and performance of I
	intrastructure including serven, application,
	services, and networking. It provides real-time
	alarts on issues like server downtime, network
	failures or se resource exhaution, allowing
	impact users.
	In E-services, Nagios is used to monitor, avail
	services like payment gateways, website uptime
	and database availability. It ensures smooth service
	delivery by deleting issues early and notifying
-	the IT team thus preventing service disruptions
	minimizing downtime, and ensuring a reliable user experience for end users.
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